

FIGURE 1A

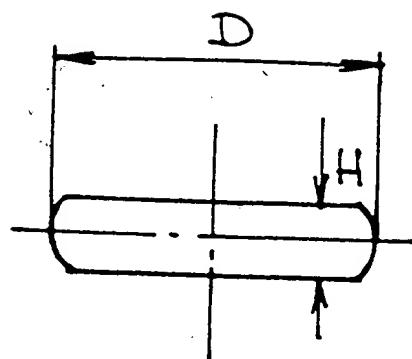


FIGURE 1B

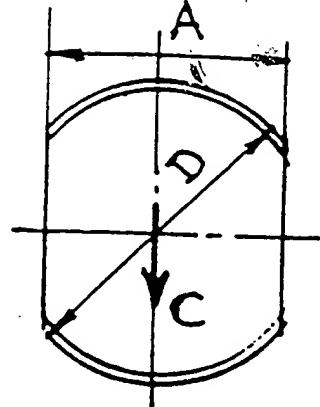


FIGURE 1C

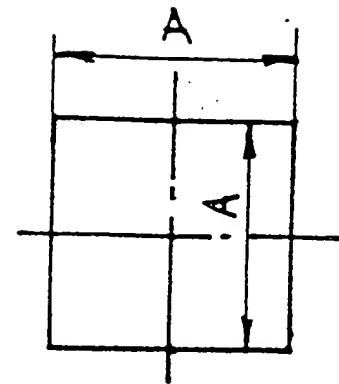


FIGURE 1D

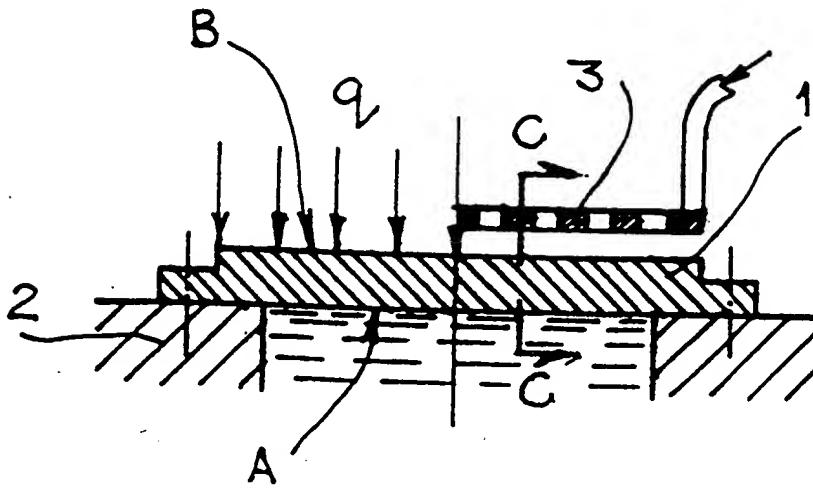


FIGURE 3A

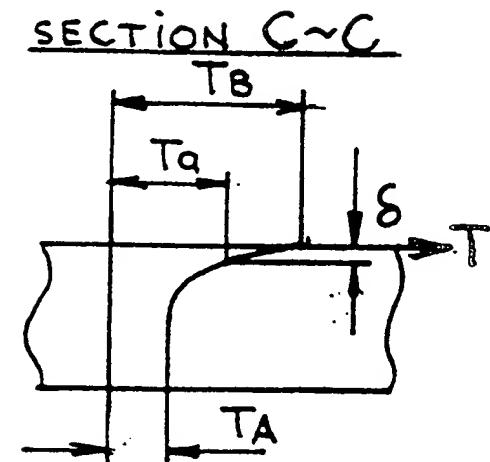
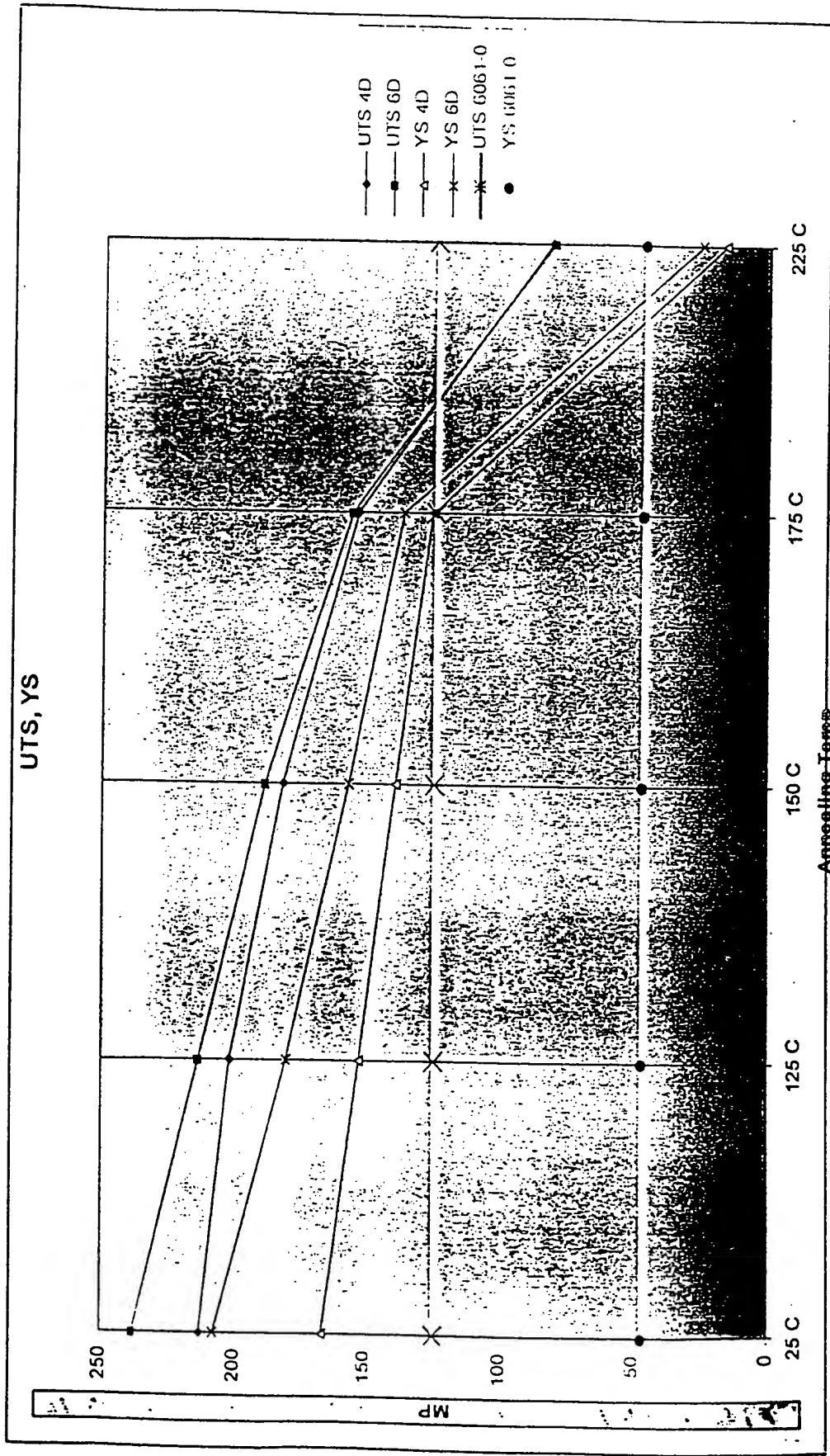


FIGURE 3B

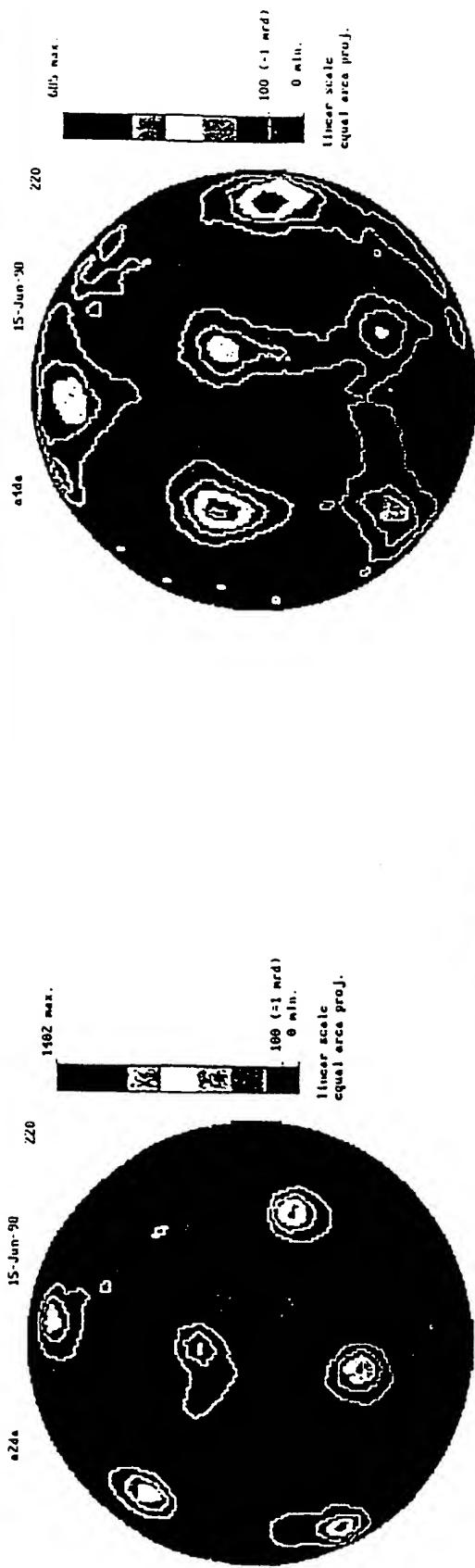
Strength of ECAE Al+0.5Cu VS AA 6061-0

FIGURE 2

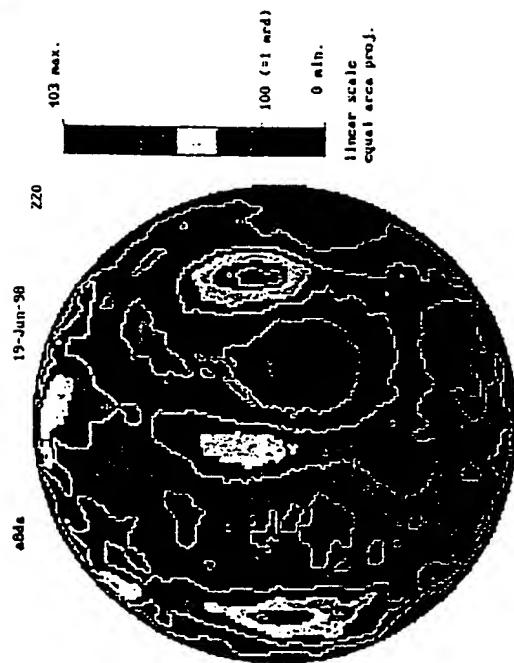


**STRUCTURAL ANALYSIS OF ECAE DEFORMED Al-5Cu
SPREADING OF ORIENTATIONS AS N INCREASES**

ROUNDED as deformed (220) 100%
ε



N=2



N=4

Figure 4

N=8

Al .5 Cu
INFLUENCE OF ECAE DEFORMATION ROUTE
AND STRENGTH OF INITIAL TEXTURE ON TEXTURE FORMATION IN
FUNCTION OF NUMBER OF ECAE PASSES

**EVOLUTION OF OD INDEX AFTER ECAE DEFORMATION VIA ROUTE A,B,C AND D IN
THE AS-DEFORMED STATE FOR A STRONG AND WEAK INITIAL TEXTURE**

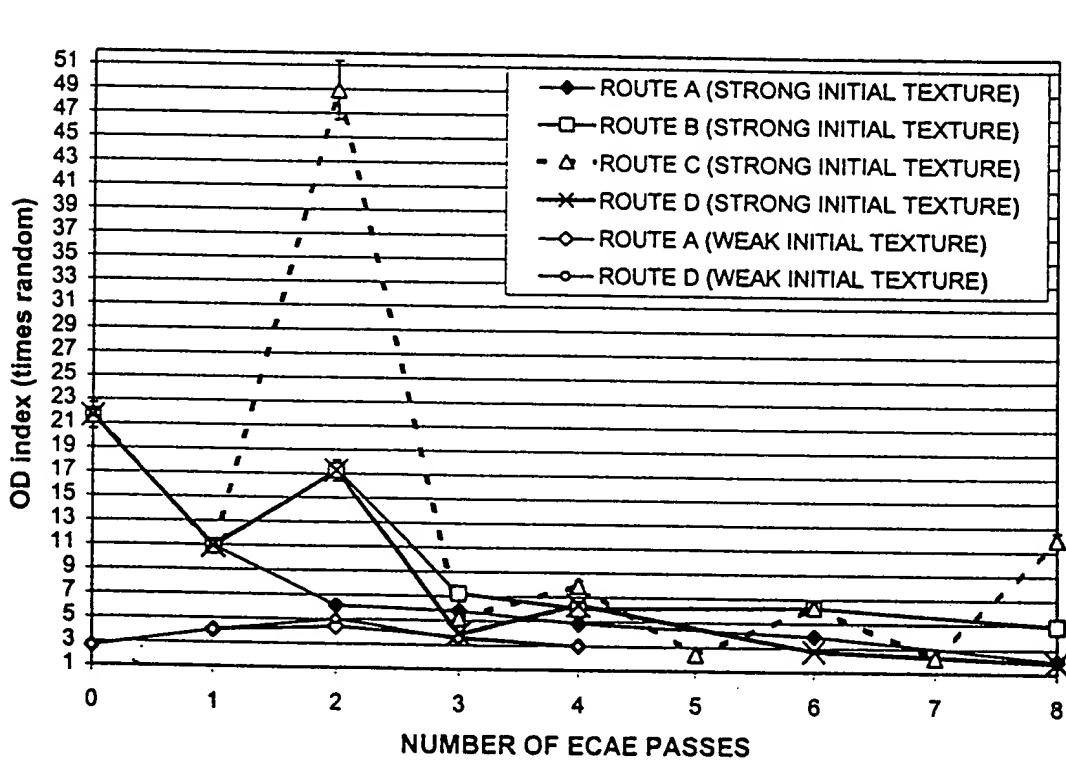


FIGURE 5

Al .5 Cu
INFLUENCE OF ANNEALING TREATMENT
ON TEXTURE FORMATION FOR ROUTE A

EVOLUTION OF OD INDEX FOR A STRONG INITIAL TEXTURE AFTER ECAE DEFORMATION VIA ROUTE A AND SUBSEQUENT ANNEALING AT TEMPERATURES:
-BELOW STATIC RECRYSTALLIZATION (150°C, 1h),
-AT THE BEGINNING OF STATIC RECRYSTALLIZATION (225°C, 1h)
-AFTER FULL STATIC RECRYSTALLIZATION (300°C, 1h)

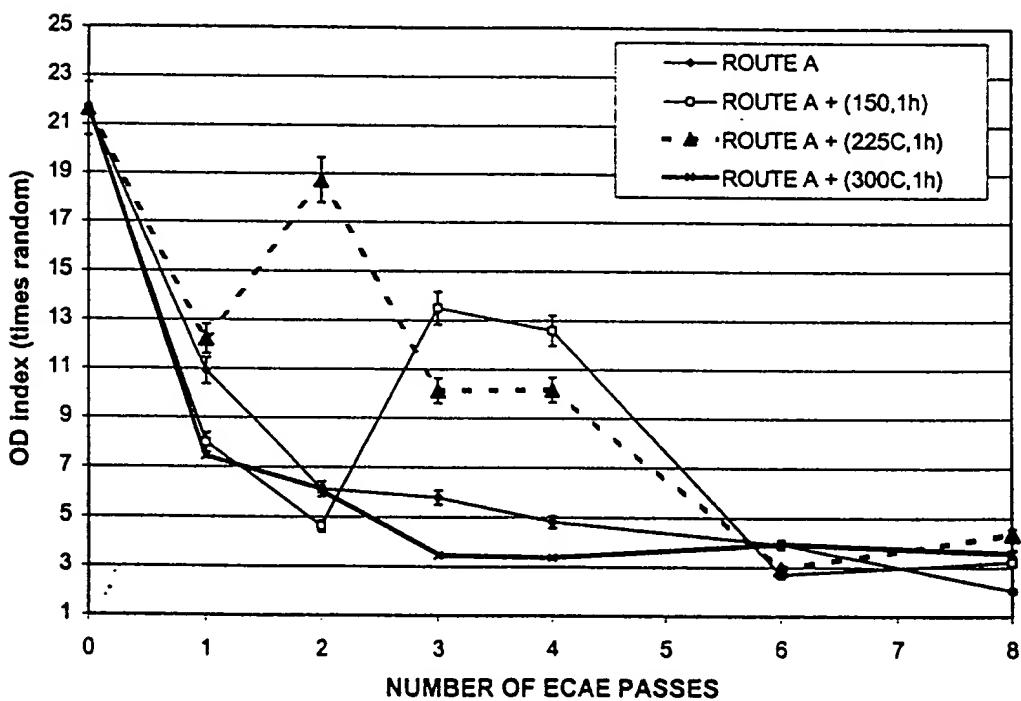


FIGURE 6

Al .5 Cu
INFLUENCE OF ANNEALING TREATMENT
ON TEXTURE FORMATION FOR ROUTE B

EVOLUTION OF OD INDEX FOR A STRONG INITIAL TEXTURE AFTER ECAE DEFORMATION VIA ROUTE B AND SUBSEQUENT ANNEALING AT TEMPERATURES:
-BELOW STATIC RECRYSTALLIZATION (150°C, 1h),
-AT THE BEGINNING OF STATIC RECRYSTALLIZATION (225°C, 1h)
-AFTER FULL STATIC RECRYSTALLIZATION (300°C, 1h)

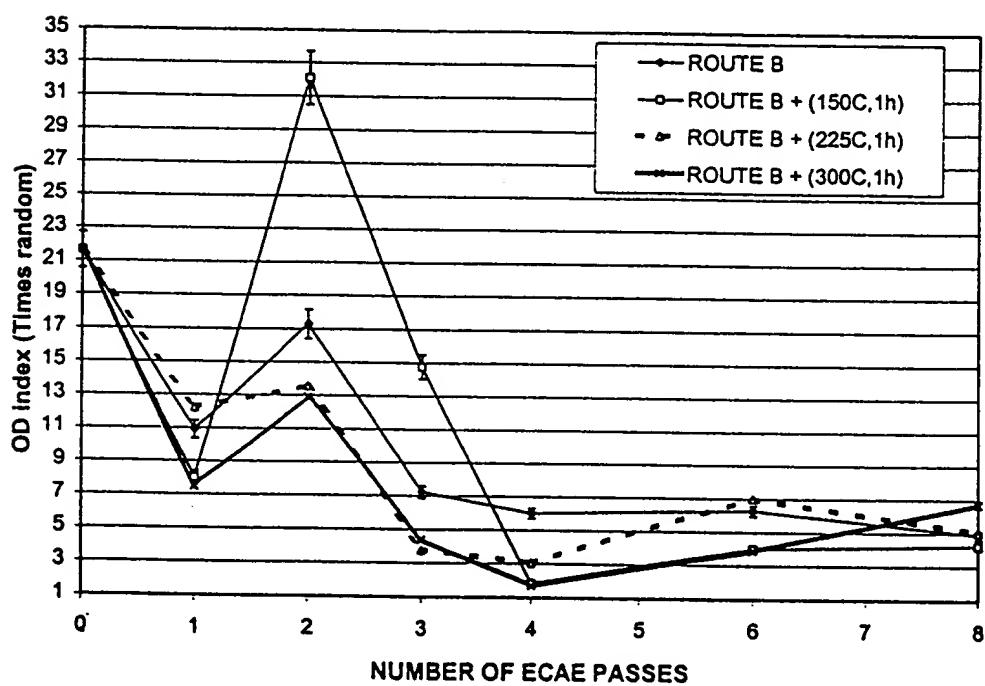


FIGURE 7

Al .5 Cu
INFLUENCE OF ANNEALING TREATMENT
ON TEXTURE FORMATION FOR ROUTE C

**EVOLUTION OF OD INDEX FOR A STRONG INITIAL TEXTURE AFTER ECAE DEFORMATION VIA
ROUTE C AND SUBSEQUENT ANNEALING AT TEMPERATURES:**

- BELOW STATIC RECRYSTALLIZATION (150°C, 1h),
- AT THE BEGINNING OF STATIC RECRYSTALLIZATION (225°C, 1h)
- AFTER FULL STATIC RECRYSTALLIZATION (300°C, 1h)

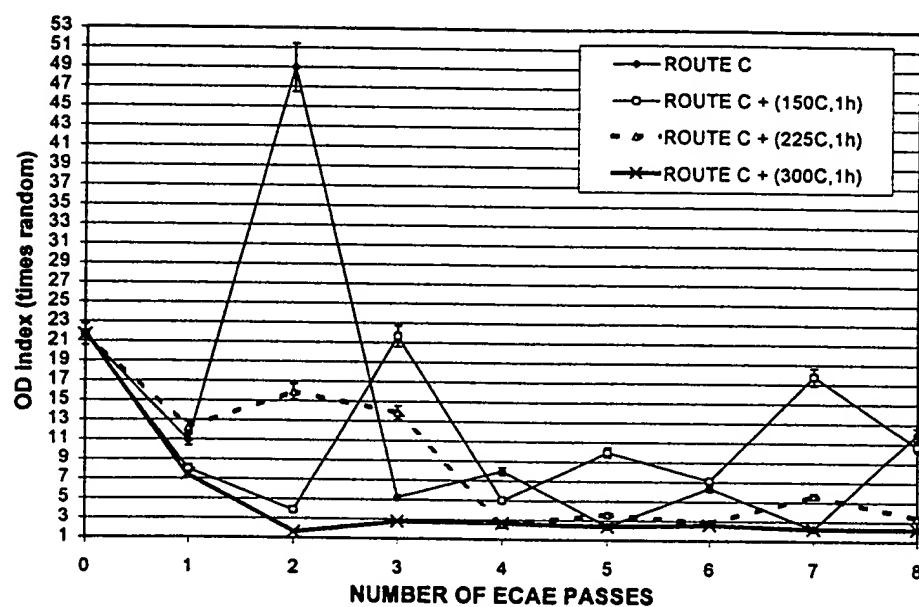


FIGURE 8

Al .5 Cu
INFLUENCE OF ANNEALING TREATMENT
ON TEXTURE FORMATION FOR ROUTE D

EVOLUTION OF OD INDEX FOR A STRONG INITIAL TEXTURE AFTER ECAE
DEFORMATION VIA ROUTE D AND SUBSEQUENT ANNEALING AT TEMPERATURES:
-BELOW STATIC RECRYSTALLIZATION (150°C, 1h),
-AT THE BEGINNING OF STATIC RECRYSTALLIZATION (225°C, 1h)
-AFTER FULL STATIC RECRYSTALLIZATION (300°C, 1h)

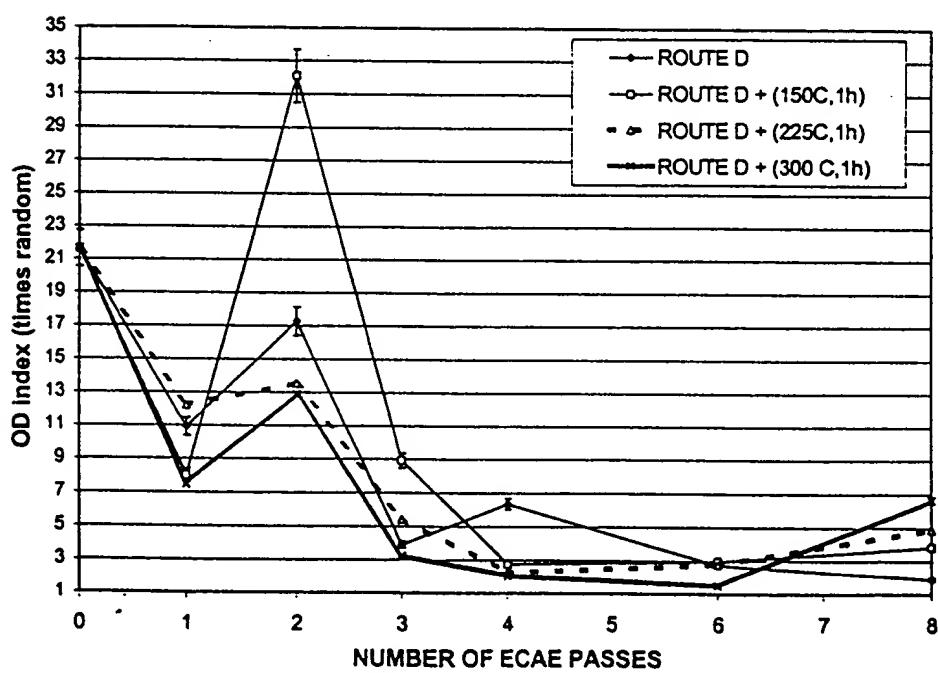


FIGURE 9

Figure 10

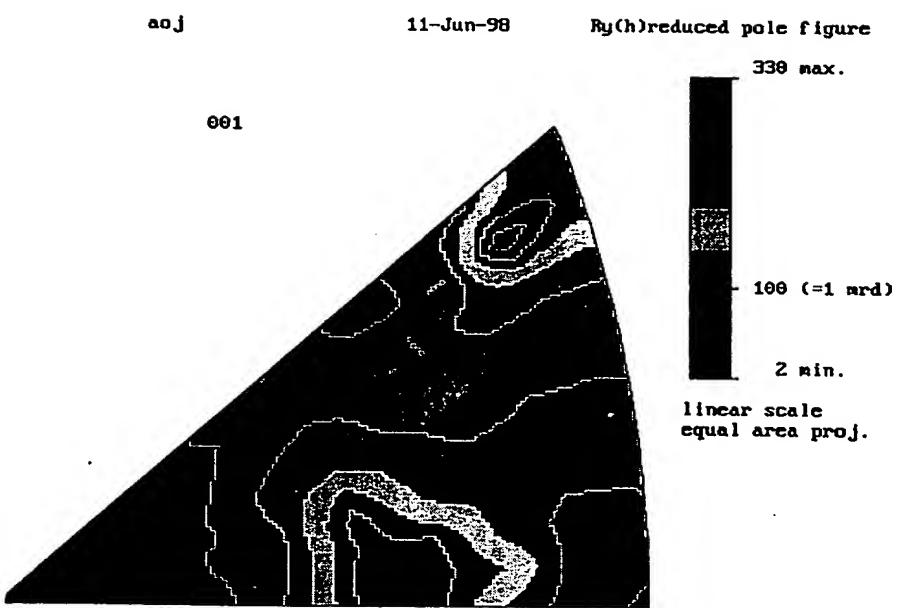


FIGURE 11

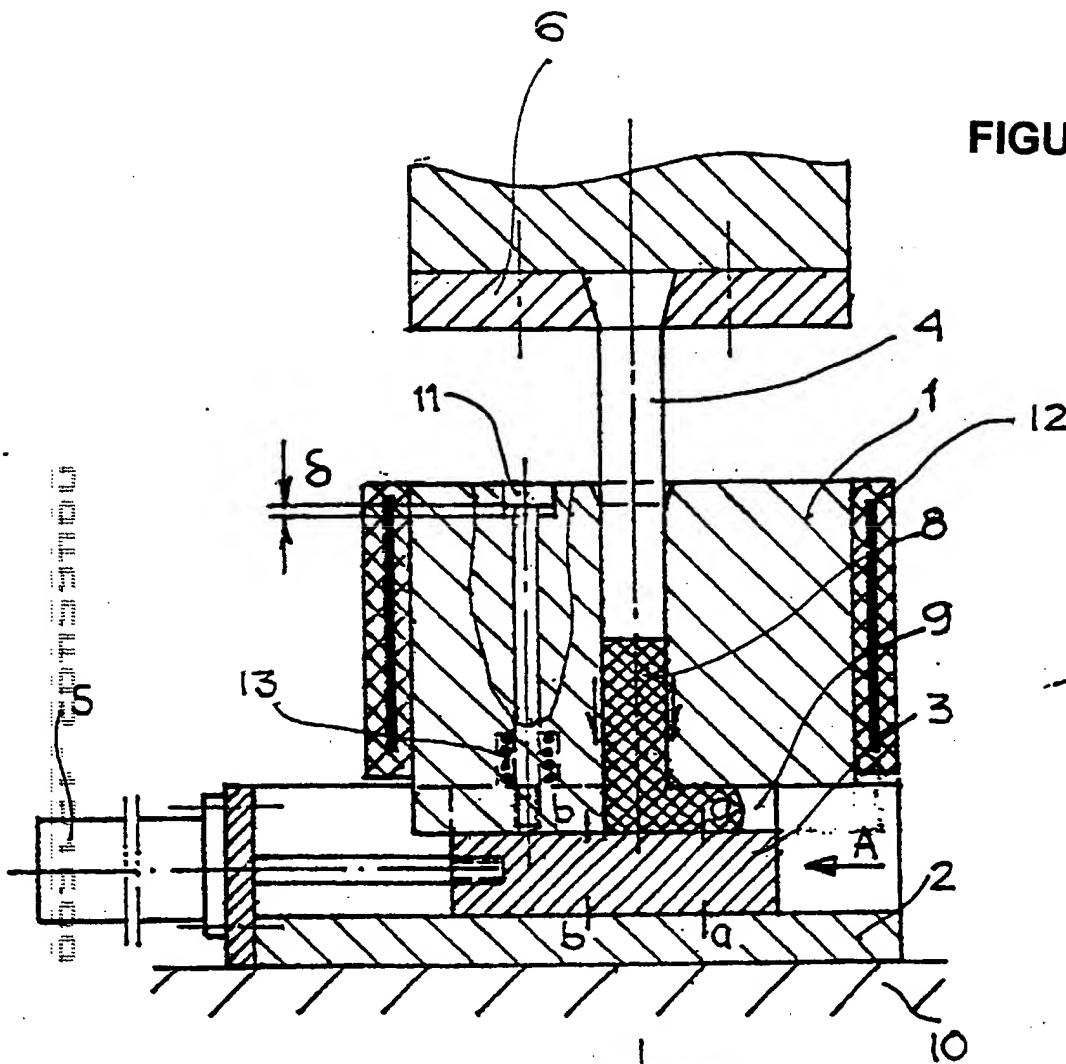


FIGURE 11A

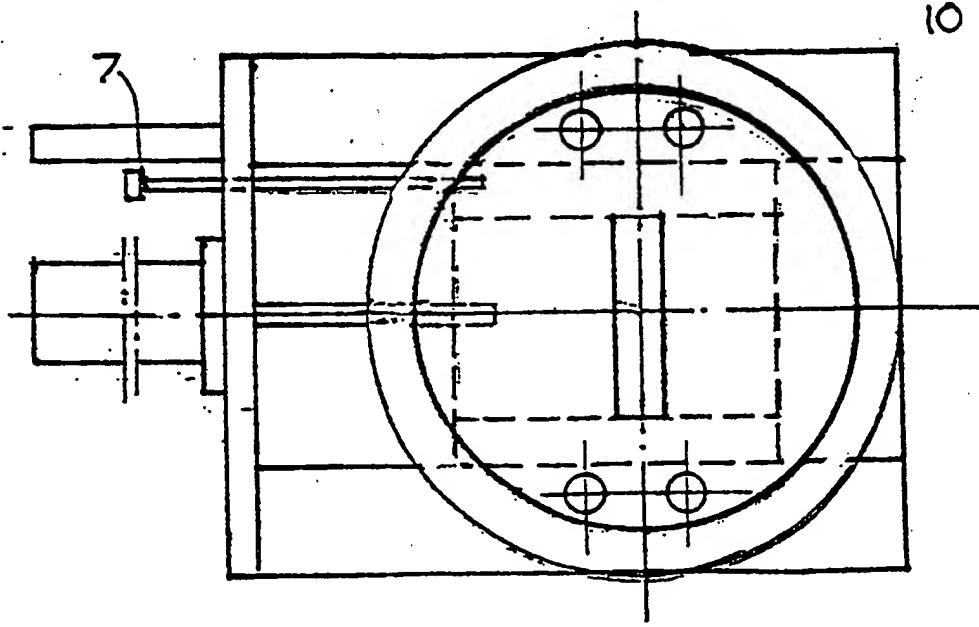
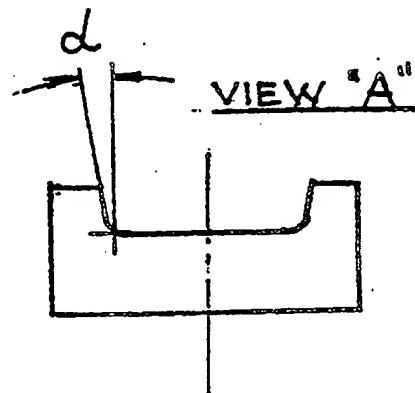


FIGURE 11B